

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

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GENERAL INFORMATION:

Name:	Summit Polymers, Inc.
Address:	160 Clarence Drive Mt. Sterling, KY 40353
Date application received:	10/18/2007
SIC Code/SIC description:	3089, Plastics Products, NEC (except plastics pipe fittings, inflatable plastics life jackets, plastics furniture parts, and plastics sausage casings)
Source ID:	21-173-00024
Source A.I. #:	3196
Activity ID:	APE20070001
Permit:	F-05-045 R1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
___Administrative	<input type="checkbox"/> Title V
<u>x</u> Minor	<input type="checkbox"/> Synthetic minor
___Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY: PERMIT MINOR REVISION (F-05-045 R1)

Pollutant	Actual (tpy)	Potential (tpy)
PM₁₀ = PT	0.662	4.76
VOC	9.55	< 90
<u>Single Haps</u>		
Acetonitrile	0.00587	0.0511
Acrylonitrile	0	0.0000664
Cumene	0.00893	0.0778
Ethyl Benzene	0.210	2.23
Glycol Ethers	0.252	2.68
MEK	0.476	5.054
Styrene	0.000123	0.0000931
Toluene	1.201	12.76
Xylene	0.323	3.43
Total HAPs:	2.48	< 22.5

SOURCE DESCRIPTION:

Summit Polymers is a manufacturer of small plastic parts for the automotive industry. Products include air conditioning/heating vent dampers and louvers, cup holders, etc. The source operates 28 injection-molding machines that produce the various automotive parts. These parts are then trimmed, inspected, and assembled. The mold “tree” and some rejected pieces and parts are then ground and recycled back through the molding system. Some of the parts, depending upon the desired final product, are sent to a series of eight (8) paint booths. The paint booths consist of small, hand-held sprayers with cartridge filters that are replaced once per shift. Painted parts are cured in a small infrared oven attached to the paint booths.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

In order to preclude the applicability of Title V permitting, the source has requested source-wide caps to limit potential emissions to less than 90 tons per year of VOC, less than 9 tons per year for any single HAP, and less than 22.5 tons per year for combined HAPS.

Monthly emissions calculations are required for the source to demonstrate compliance with these emission caps. The amount of solvent-based paint used at the plant is limited to 1260 gallons per month based upon the original conditional major permit issued for the source.

MINOR REVISION F-05-045 R1:

On October 18, 2007, the Division for Air Quality (DAQ) received an application for a minor revision from the Summit Polymers, Inc. Mount Sterling facility. Two injection-molding machines and a paint booth were removed from the facility. The number of injection molding machines and paint booths decreased from 30 to 28 and 9 to 8, respectively. Because the total throughput through the injection molders and paint booths did not decrease, the potential emissions were not affected by the change. The application was deemed complete on November 28, 2007.

OPERATIONAL FLEXIBILITY: None